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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/887,199	06/21/2001	Ivo Raaijmakers	ASMMC.005AUS	7254	
75	90 04/09/2003				
Knobbe Martens Olson & Bear LLP Sixteenth Floor 620 Newport Center Drive			EXAMINER		
			MAI, ANH D		
Newport Beach	, CA 92660		ART UNIT	PAPER NUMBER	
			2814	2814	
			DATE MAILED: 04/09/2003	DATE MAILED: 04/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

. `	Application No.	pplicant(s)	-
	09/887,199	RAAIJMAKERS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Anh D. Mai	2814	
Th MAILING DATE of this communication app Period for Reply	pears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may y within the statutory minimum of t will apply and will expire SIX (6) Mi , cause the application to become	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 04 F	ebruary 2003 .		
2a)⊠ This action is FINAL. 2b)□ Th	is action is non-final.		
3) Since this application is in condition for allowationsed in accordance with the practice under Disposition of Claims			
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application	1.		
4a) Of the above claim(s) <u>2-5</u> is/are withdrawn		•	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 and 6-19</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine		•	
10) The drawing(s) filed on is/are: a) accep	, ,		
Applicant may not request that any objection to the		• • •	
11) The proposed drawing correction filed on		disapproved by the Examiner.	
12) The oath or declaration is objected to by the Ex	•		
Priority under 35 U.S.C. §§ 119 and 120	arriiror.		
13) Acknowledgment is made of a claim for foreign	n priority under 35 LLS C	& 119(a)-(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	i priority under 00 0.0.0	. 3 1 13(a)-(a) 51 (i).	
1. ☐ Certified copies of the priority documents	s have been received		
2. Certified copies of the priority documents		Application No	
<ol> <li>Copies of the certified copies of the prior application from the International Bur</li> </ol>	rity documents have bee reau (PCT Rule 17.2(a))	n received in this National Stage	
* See the attached detailed Office action for a list	· ·		
14) Acknowledgment is made of a claim for domestic	•		
<ul> <li>a)</li></ul>	* *		
Attachment(s)			
)  Notice of References Cited (PTO-892) 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice o	V Summary (PTO-413) Paper No(s)  I Informal Patent Application (PTO-152)	

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### **DETAILED ACTION**

### Amendment

1. Amendment filed February 4, 2003 has been entered as Paper No. 8. Claims 20-58 have been canceled. Claims 1-19 are pending. Claims 2-5 have been withdrawn.

# From Previous Office Action

- 2. Claims 1 and 6 are rejected under 35 U.S.C. 102(e) for being clearly anticipated by Sherman (U.S. Pub No. 2002/0031618), as previously applied.
- 3. Claims 7-19 are rejected under 35 U.S.C. 103(a) for being unpatentable over Sherman as applied to claim 6 above, and further in view of Gates et al. (U.S. Patent No. 6,203,613), as previously applied.

## Response to Arguments

### Claim Rejections - 35 USC § 102

Applicants argue that Sherman '618 does not have any specific teachings regarding trench isolation structures. Further, while Sherman does disclose depositing a monolayer into a high aspect ratio hole, as in Example 10, there is no teaching or suggest that the trenches can be filled by the disclosed methods".

First of all a "high aspect ratio hole" means a trench having high aspect ratio.

Secondly, Sherman's paragraph [0039] clearly teaches: "substrate being coat that have features with high aspect ratio holes or trenches".

Clearly Sherman does teach filling trenches using disclosed methods. The rejection is therefore, maintained.

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### Claim Rejections - 35 USC § 102

Since Sherman does teach filling the trenches using the disclosed methods, thus, the combination of the references clearly renders claims 7-19 obvious. The rejection is therefore, maintained.

### Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh D. Mai whose telephone number is (703) 305-0575. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703) 308-4918. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

A.M April 4, 2003

SUPERVICORY PRIMARY EXAMINER TECHNOLOGY CENTER 2800